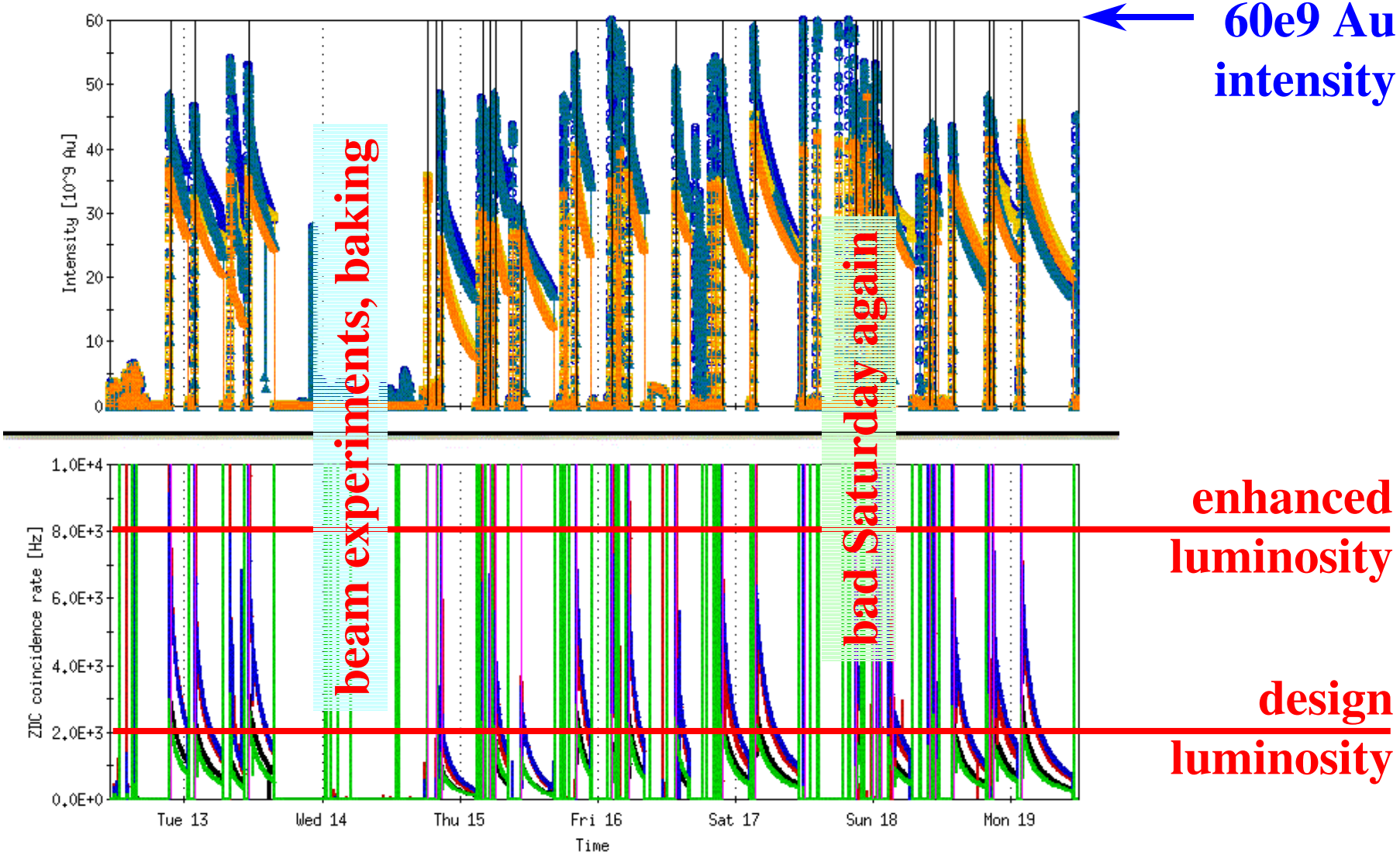
Progress during last week:

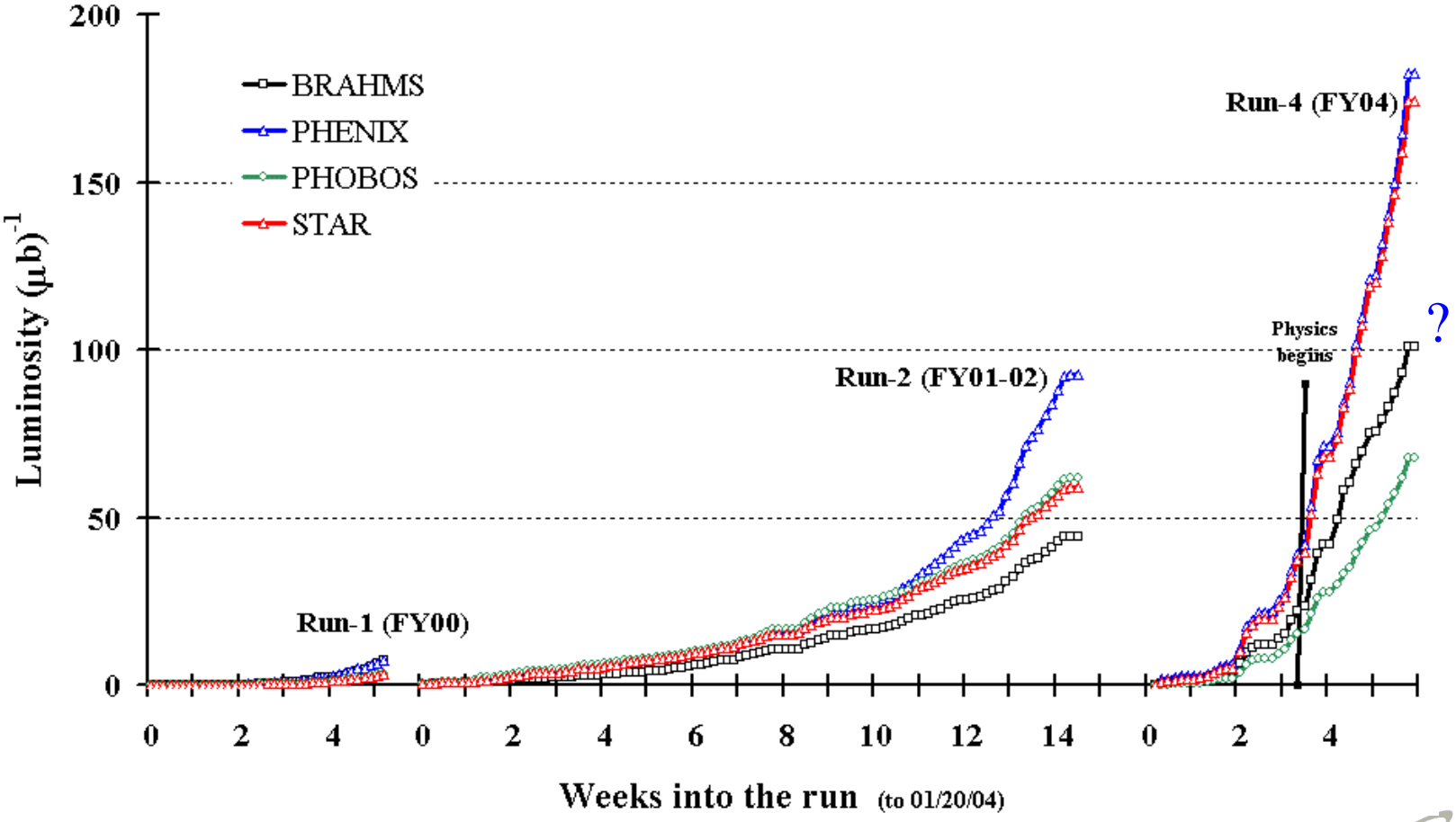
1. Baking in Yellow IR4 (D. Weiss, L. Smart)
   → Raised Yellow intensity threshold from 0.7 to 0.8e9/bunch
2. Smooth approach of store frequency (T. Hayes, M. Brennan)
3. Phase lock during frequency ramping (T. Hayes, M. Brennan)
4. Rf phase of all bunches in a AGS cycle (T. Hayes, W. Fischer)
5. New Prep and Up sequences (J. van Zeijts, W. Fischer)
6. Faster AGS cycle, from 5.4 to 4.0sec (L. Ahrens, T. Shrey, K. Zeno)
7. Automatic steering for all experiments, sequentially (T. D'Ottavio)
8. Continuous gap cleaning (A. Drees)
9. Faster collimation (A. Drees)

Stores during last week, Monday to Monday



Delivered 182.5 $(\mu b)^{-1}$ to Phenix [109.8]
72.7 $(\mu b)^{-1}$ last week [42.4]
Target 330 $(\mu b)^{-1}$

Star ×0.9
Phobos ×0.3
Brahms ×0.5?



Plan for next week:

1. Optimize bunch intensity and numbers at vacuum limit, in Blue and Yellow [~ +10% luminosity]
2. Better emittance control [~ +10-20% luminosity]
3. Further refinements [~ +10% luminosity]
   - Injection
   - Automatic orbit correction
   - Automatic steering (now ~5min)
   - Collimation (now ~15min)
     [experiments should use own judgment for turn-on – no store lost during steering or collimation in last 3 weeks]

Further ideas:

- Very high intensity bunches (>1.5e9, Landau cavities, Booster merge)
- PHENIX β*=80cm (needs preparation)